

Substitute of form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/657017
				Filing Date	September 5, 2003
				First Name Inventor	Juan DePablo
				Group Art Unit	3737
				Examiner Name	
Sheet	1	of	2	Attorney Docket Number	096429-9144

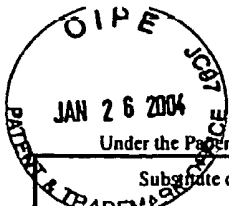
U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
SS		4411894	Schrank et al.	Oct., 1983
		4476221	Kane et al.	Oct., 1984
		4798824	Belzer et al.	Jan., 1989
		4806343	Carpenter et al.	Feb., 1989
		4806524	Kawaguchi et al.	Feb., 1989
		4857319	Crowe et al.	Aug., 1989
		4873230	Belzer et al.	Oct., 1989
		4891319	Roser	Jan., 1990
		5026566	Roser	Jun., 1991
		5149653	Roser	Sep., 1992
		5171661	Goodrich, Jr. et al.	Dec., 1992
		5252496	Kang et al.	Oct., 1993
		5314595	Fuller	May, 1994
		5512547	Johnson et al.	Apr., 1996
		5556771	Shen et al.	Sep., 1996
		5589167	Cleland et al.	Dec., 1996
		5621094	Roser et al.	Apr., 1997
		6468782	Tunnacliffe et al.	Oct., 2002
		2001/00119819	Wolkers et al.	Sep., 2001
		2002/0009500	Wolkers et al.	Jan., 2003
SS		2002/0076445 *	Crowe, et al.	Jun., 2002
		5827741 *	Beattie, et al.	Oct., 1998
		2002/0114791 *	Crowe, et al.	Aug., 2002

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
SS	EP	0 356 257	Cryopharm Corporation	Feb., 1990		
	EP	0 508 496	Cryopharm Corporation	Oct., 1992		
	EP	0 580 444	Roussel Morishita Co., Ltd., et al.	Jan., 1994		
	EP	0 682 944	Bayol et al.	Nov., 1995		
	PCT	WO 95/20399	Ciba-Geigy Ag, et al.	Aug., 1995		
	PCT	WO96/05809	Colaco et al.	Feb., 1996		
	PCT	WO96/40077	Roser et al.	Dec., 1996		
	PCT	WO98/41188	Roser et al.	Sep., 1998		
SS	PCT	WO99/47174	Roser et al.	Sep., 1999		

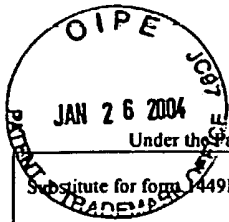
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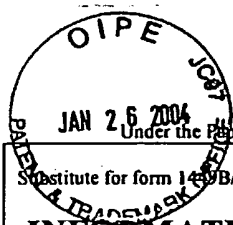
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SS		Ahmad N, Kashi H, Helmy H, Hadingham J, Potts DJ, Lodge JP. Renal preservation with phosphate buffered sucrose: comparison with hyperosmolar citrate in a prospective trial. <i>Transplant Proc.</i> 1997 Feb.-Mar.;29(1-2):355-6.
		Arakawa et al., Stabilization of Protein Structure By Sugars, <i>Biochemistry</i> 21, 6536-6544, 1982.
		Bando et al., Effects of Newly Developed Solutions Containing Trehalose on Twenty-Hour Canine Lung Preservation, <i>The Journal of Thoracic and Cardiovascular Surgery</i> 108, 1:92-98, 1994.
		Beattie et al., Trehalose: A Cryoprotectant that Enhances Recovery and Preserves Function of Human Pancreatic Islets After Long-Term Storage, <i>Diabetes</i> 46, 519-523, 1997.
		Carpenter et al., Interactions of Stabilizers with Proteins During Freezing and Drying, <i>American Cancer Society</i> 9, 135-147, 1994.
		Carpenter et al., Long-Term Preservation of Dried Phosphofructokinase by Sugars and Sugar/Zinc Mixtures, <i>Cryobiology</i> 25, 372-376, 1998.
		Carpenter et al., Modes of Stabilization of a Protein by Organic Solutes During Desiccation, <i>Cryobiology</i> 25, 459-470, 1998.
		Carpenter et al., Stabilization of Phosphofructokinase During Air-Drying with Sugars and Sugar/Transition Metal Mixtures, <i>Cryobiology</i> 24, 455-465, 1987.
		Carpenter et al., Stabilization of Phosphofructokinase with Sugars During Freeze-Drying: Characterization of Enhanced Protection in the Presence of Divalent Cations, <i>Biochimica et Biophysica Acta</i> , 109-115, 1987.
SS		Carpenter et al., The Mechanism of Cryoprotection of Proteins by Solutes, <i>Cryobiology</i> 25, 244-255, 1998.

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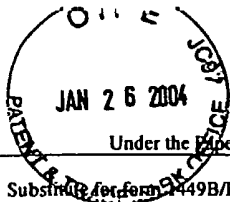
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/657017	
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			Group Art Unit	3737	
			Examiner Name		
Sheet	2	of	6	Attorney Docket Number	096429-9144

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
SS		Crowe et al., Is Trehalose Special for Preserving Dry Biomaterials?, <i>Biophysical Journal</i> , Chpt. 71, 2087-2093, 1996.
		Crowe et al., Preservation of Freeze-Dried Liposomes by Trehalose, <i>Archives of Biochemistry and Biophysics</i> 242, 240-267, 1985.
		Crowe et al., Preservation of Mammalian Cells-Learning Nature's Tricks, <i>Nature Biotechnology</i> 18, 145-167, 2000.
		Crowe et al., Preserving Dry Biomaterials: The Water Replacement Hypothesis, Part 1, <i>BioPharm</i> 37, 28-33, 1993.
		Crowe, et al., <i>Cryobiology</i> , 20, 346-356, 1983.
		Crowe, et al., <i>Cryobiology</i> , 35, 20-30, 1997.
		Crystall, Glass Pharmacy: Preserved in Minute Beads of Sugar, Drugs Could Last for Years and Be Easier to Take, Too., <i>New Scientist</i> , 24-27, 1997.
		Darling, et al., <i>Animal Cells-Culture and Media-Essential Data</i> 22-23, John Wiley & Sons 1994.
		Dellman et al., Preservation of Fine Structure in Vibratome-Cut Sections of the Central Nervous System Stained for Light Microscopy, <i>Stain Technology</i> 58, 6:319-23, 1983.
SS		Dulbecco, et al., "Plaque Formation and Isolation of Pure Lines with Poliomyelitis Viruses" <i>Journal of Experimental Medicine</i> , 99:167-182, 1954.

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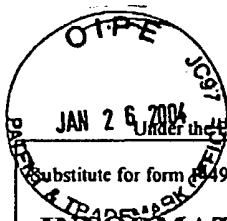
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Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
SS		English Translation of Fukumoto et al.
		English Translation of Migulina.
		Eroglu et al., Intracellular Trehalose Improves the Survival of Cryopreserved Mammalian Cells, <i>Nature Biotechnology</i> 18, 163-167, 2000.
		Ford et al., The Effect of Carbohydrate Additives in the Freeze-Drying of Alkaline Phosphate, <i>J. Pharm Pharmacol</i> 45, 86-93, 1992.
		Franks et al., Using Water-Soluble Glasses as a Strategy for Bioproduct Stabilization, <i>Pafta Biopreservation</i> , Cambridge, U.K., 1 pg.
		Freshney, <i>Culture of Animal Cells</i> , 3 rd Ed., 85, Wiley-Liss, 1994.
		Freshney, <i>Culture of Immortalized Cells</i> 186, Wiley-Liss, 1996.
		Fukumoto et al., Effect of Various Additives on Long-Term Preservation of Cucumber Mosaic in vitro, <i>Ann. Phytopath Soc. Japan</i> 46, 448-54, 1980.
		Goldin, Barry R., "Health Benefits of Probiotics" <i>British Journal of Nutrition</i> 80 Suppl. 2, S203-S207, 1998.
SS		Guo et al., Trehalose Expression Confers Desiccation Tolerance on Human Cells, <i>Nature Biotechnology</i> 18, 168-171, 2000.

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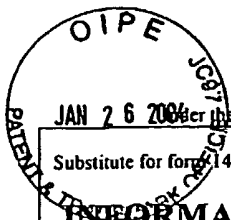
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	Hirata et al., Effects of Trehalose in Canine Lung Preservation, <i>Surgery</i> 115, 1:102-107, 1994.
	Hopkinson et al., Comparison of Saccharides as Osmotic Impermeants During Hypothermic Lung Graft Preservation, <i>Transplantation</i> 61, 12:1667-1671, 1996.
	Isowa et al., Trehalose-Containing Solutions Enhance Preservation of Culture Endothelial Cells, <i>Ann. Thoracic Surgery</i> , 61:542-545, 1996.
	Izutzu et al., Cryprotection of LDH of Amphiphilic Excipients, <i>Biotechnology and Bioengineering</i> 43, No. 11, 1994.
	Izutzu et al., Stabilizing Effect of Amphiphilic Excipients on Freeze-Thawing and Freeze-Drying of Lactate Dehydrogenase, <i>Biotechnology and Bioengineering</i> 43, 1102-1107, 1994.
	Kaufman, et al., Ed., <i>Handbook of Molecular and Cellular Methods in Biology and Medicine</i> 350, CRC Press, 1995.
	Kharche et al., Effect of Certain Dilutors on the Morphology of Ram Spermatozoa on Preservation at 5C, <i>Indian Vet. S</i> 53, 694-98, 1976.
	Kitahara, et al., Preservation of Skin Free-Flap Using Trehalose, <i>Journal of Surgical Research</i> 62, 1:130-134, 1996.
	Lam FT, Mavor AI, Potts DJ, Giles GR. Improved 72-hour renal preservation with phosphate-buffered sucrose. <i>Transplantation</i> . 1989 May;47(5):767-71.
	Leslie et al., Trehalose and Sucrose Protect Both Membranes and Proteins in Intact Bacteria During Drying, <i>Applied Environmental Microbiology</i> 61, 3562-3597, 1995.

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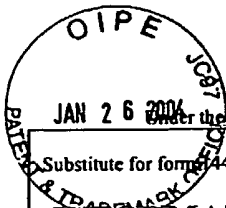
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	McCoy II, Cryobio Research May Lead to Increased Human Blood Supply, Mary Ann Liebert, Inc., New York, 1994.
	Migulina, Preservation of Sheep's Blood for the Wasserman Reaction with Glucoboric-Saline Solution, <i>Vestn. Derm. Vener</i> 35, 3:40-47, 1961.
	Miller et al., Monitor: Progress and Profiles, <i>PSTT</i> 1, No. 7, 1998.
	Miller et al., Stabilization of Lactate Dehydrogenase Following Freeze-Thawing and Vacuum-Drying in the Presence of Trehalose and Borate, <i>Pharmaceutical Research</i> 15, 8:1215-1221, 1998.
	Miller, et al., "Thermophysical Properties of Trehalose and Its Concentrated Aqueous Solutions" <i>Pharmaceutical Research</i> 14, 5:578-590, 1997.
	Onishi and Barr, "Simplified Method for Quantitating Protein using Biuret and Phenol Reagents" <i>Analytical Biochem</i> 86:193-200, 1978.
	Perzon et al., Reversible Gel Formation Induced by Ion Complexation, <i>Macromolecules</i> 21, 1121-1125, 1998.
	Pollard, et al., Ed., <i>Basic Cell Culture Protocols</i> 2 nd Ed., 471, Humana Press, 1997.
	Roser et al., A Sweeter Way to Fresher Food, <i>New Scientist</i> , 1993, 4 pgs.
	Saha et al., Normal Calves Obtained After Direct Transfer of Vitrified Bovine Embryos Using Ethylene Glycol, Trehalose and Polyvinylpyrrolidone, <i>Cryobiology</i> 33, 291-299, 1996.

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SS	Sanders, Mary E., "Development of Consumer Probiotics for the US Market" <i>British Journal of Nutrition</i> 80, Suppl. 2, S213-S218, 1998.
	Sigma Product Information: Product No. P0261.
	Spieles, et al., <i>Cryo-Letters</i> 17, 43-52, 1996.
	Sutton, J., <i>Chem. Soc. Faraday Trans</i> 87, 3747, 1991.
	Vaughan et al., Probiotics in the New Millenium, <i>Nahrung, (Food)</i> 43, 3:148-153, 1999.
	Whitaker, <i>Tissue and Cell Culture</i> 14-15, Balliere Trindall, 1972.
	Yokomise et al., Long-Term Cryopreservation Can Prevent Rejection of Canine Tracheal Allografts with Preservation of Graft Viability, <i>The Journal of Thoracic and Cardiovascular Surgery</i> 111, 5:930-934, 1996.
SS	Zuidam et al., Gamma-Irradiation of Non-Frozen, Frozen, and Freeze-Dried Liposomes, <i>Pharmaceutical Research</i> , 12(11):1761-68, 1995

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